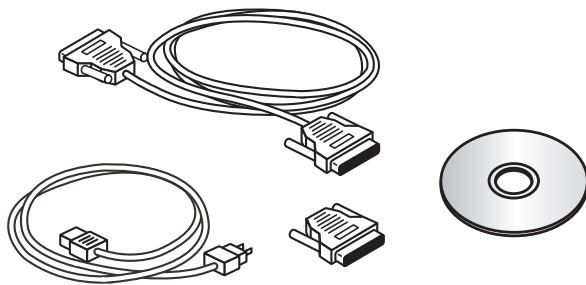


# HP StorageWorks

## 1/8 Tape Autoloader



### Check Your Accessory Kit Contents



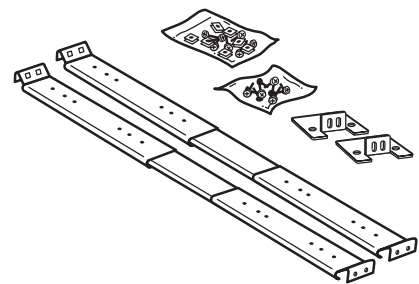
**SCSI Interface Cable:** Connects the autoloader to the host.

**SCSI Terminator:** 68-pin external terminator to be used if the autoloader is the only or the last SCSI device on the SCSI bus.

**Power Cord:** Localized power cord included with the autoloader.

**Documentation CD:** User and Service Guide with Web links for product registration, drivers, and technical support.

### 1/8 Rack Mount Kit (Optional)

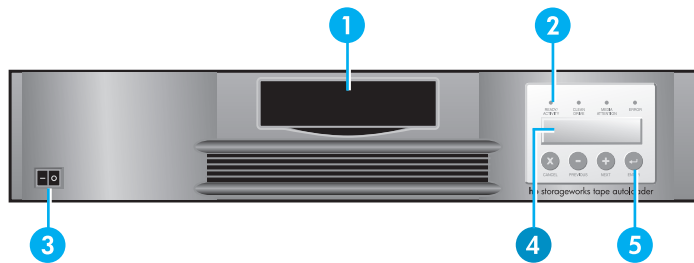


This kit is required for mounting the autoloader into a 19 inch rack.

Visit [www.hp.com/go/support](http://www.hp.com/go/support) and type the autoloader model name or part number to:

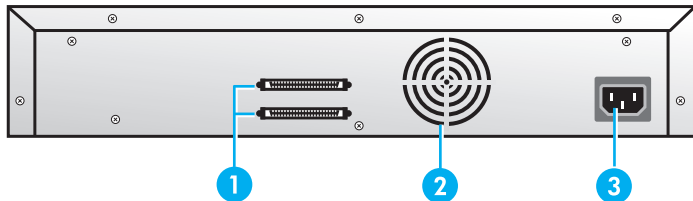
- View, download, or print the user manual
- Access the HP Library & Tape Tools diagnostic utility
- Obtain more information on backup software

## Front overview



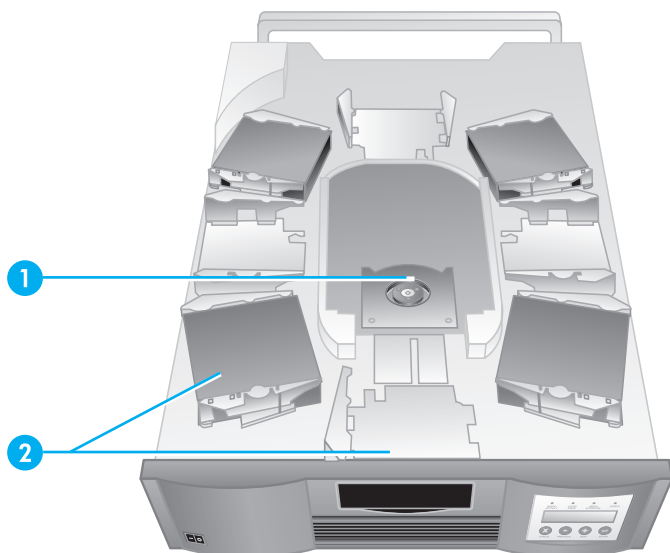
1. Mailslot
2. Front panel LED's
3. Power switch
4. Front panel LCD display
5. Control keys

## Rear overview



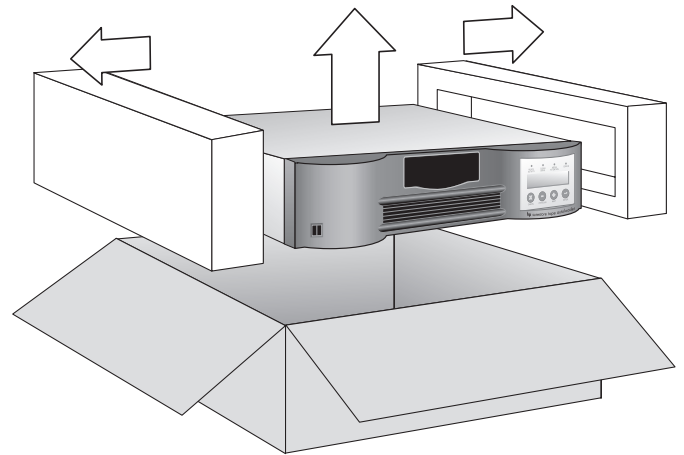
1. 68-pin SCSI connector
2. Fan vent
3. Power connector

## Internal overview



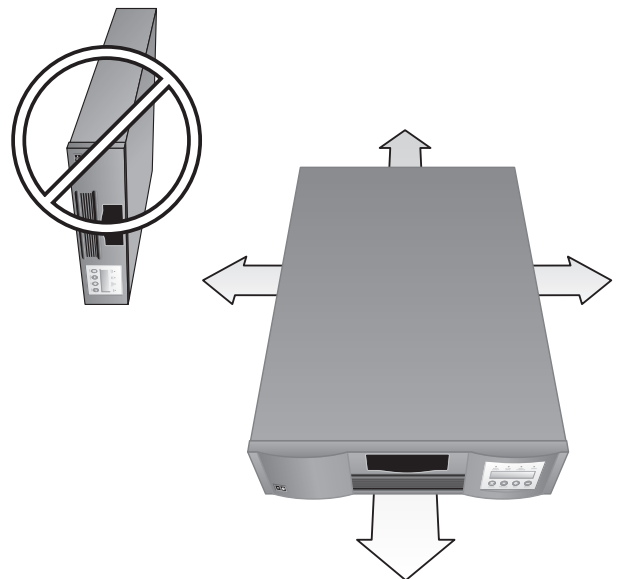
1. Drive
2. Cartridge carriers

## 1 Unpacking the autoloader



After removing the accessories package, lift the autoloader and padding out of the box and place it on a work surface, top facing up. Carefully remove the shipping padding from the left and right sides of the autoloader and then the bag. Save the packing materials to move or ship the autoloader in the future.

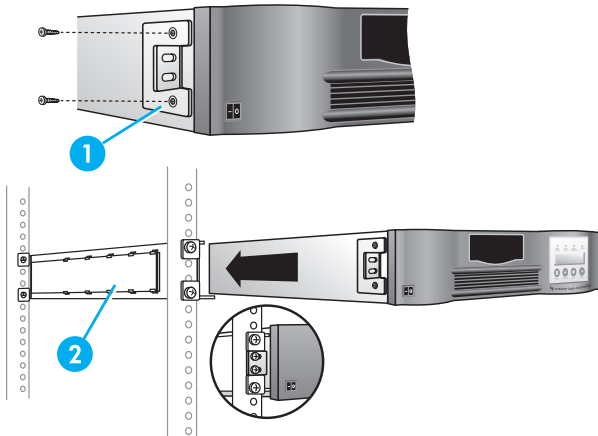
## 2 Choosing a location



Select a location that has adequate clearance for ventilation, minimal dust and debris, and has an appropriate power source.

For standalone autoloaders, select a location that is flat, sturdy, and level. Do not place the autoloader on its side or stack items on top of the autoloader.

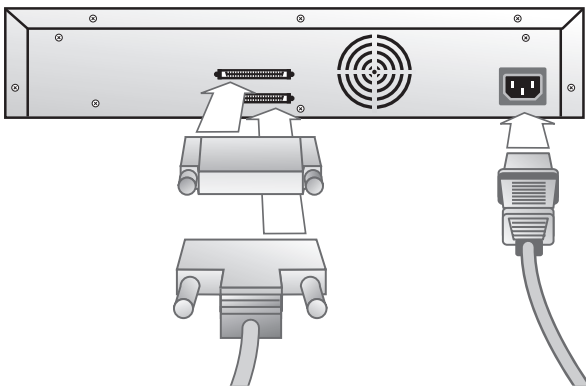
## 3 Installing the autoloader in a rack (optional)



1. Mounting bracket
2. Mounting rail

Install the autoloader by **1)** Installing a mounting bracket to each side of the autoloader, and **2)** Installing the mounting rails to the selected rack location. Slide the autoloader onto the rails and secure the mounting brackets to the rack. (See detailed installation instructions in the User and Service Guide.)

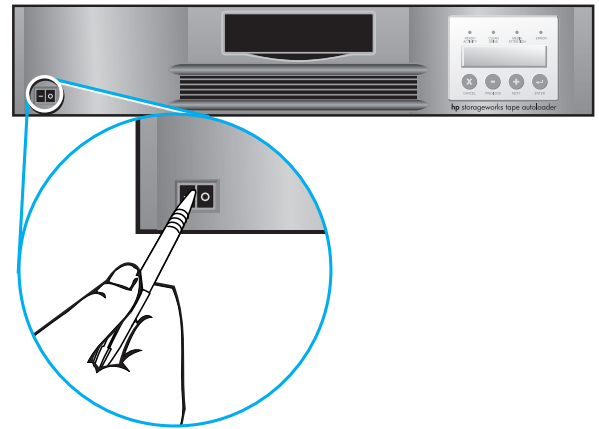
## 4 Connecting the autoloader



Make sure all devices on the SCSI bus are powered off. Attach the SCSI cable, terminator, and power cord as shown.

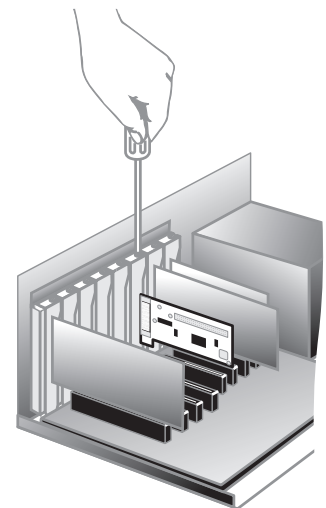
**WARNING:** This product can ONLY be used with an HP approved power cord for your specific geographic region. Use of a non-HP approved power cord may result in: 1) not meeting individual country specific safety requirements; 2) insufficient conductor ampacity that could result in overheating with potential personal injury and/or property damage; and 3) an unapproved power cord could fracture resulting in the internal contacts being exposed, which potentially could subject the user to a shock hazard. HP disclaims all liability in the event a non-HP approved power cord is used.

## 5 Powering on the autoloader



Plug the autoloader power cable into a properly grounded outlet. Power on the autoloader by pressing the power button on the front panel. Power on the host and all attached devices.

## 6 Preparing the host and verifying the connection



**NOTE:** It is important to connect to a SCSI HBA that supports your autoloader's optimum performance. Some models also require an HBA that supports LUN scanning. Please refer to the user manual for detailed recommendations and more information about SCSI IDs.

Install a SCSI host bus adapter, software, and compatible driver on the host computer.

Install the HP Library & Tape Tools diagnostic utility available at [www.hp.com/support/TapeTools](http://www.hp.com/support/TapeTools) to verify installation, upgrade firmware, and to aid in troubleshooting.

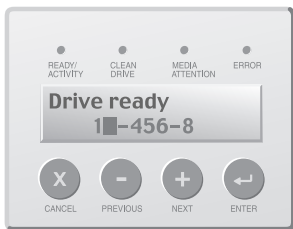
# Operating the Autoloader

## Operator's Panel Overview

The Operator's Panel has four LEDs, four buttons, and a 2-line by 16-character LCD screen. It provides everything you need to monitor autoloader status and to control all of its functions.

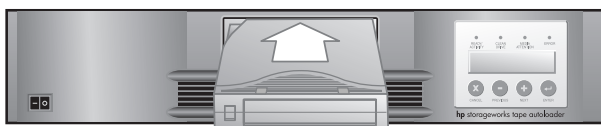


The display defaults to the Home screen. The Home screen consists of the autoloader status on the top line and the current cartridge inventory on the second line. If the tape drive does not have a cartridge loaded, the top line displays **<Drive type>** or **Drive empty**, depending upon the type of autoloader (as shown).



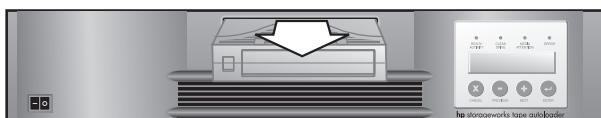
If the tape drive has a cartridge loaded, the top line displays **Drive ready** or **Drive loaded**, depending upon the type of autoloader (as shown). The cartridge currently loaded in the drive is indicated by an alternating black block and the slot number. This display can also indicate that the specified cartridge is being loaded, unloaded, imported, or exported. The autoloader status line indicates the current operation.

## Importing cartridges



Load tapes into the autoloader by using the Import command from the front panel and inserting the data cartridge into the mailslot.

## Exporting cartridges



Unload tapes from the autoloader by using the Export command from the front panel. The selected tape will automatically eject.

## Loading cartridges

Load tapes from the autoloader slots into the drive by using the Load Cartridge command from the front panel.

## Unloading cartridges

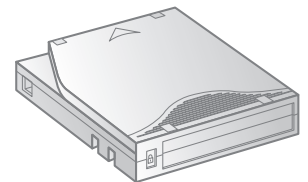
Unload tapes from the drive to the autoloader slots using the Unload Cartridge command from the front panel.

## Cleaning the drive

Clean the drive when the Clean Drive LED is illuminated. Use the Clean Drive command from the front panel to import a cleaning cartridge into the autoloader and begin the cleaning operation. Only model specific cleaning cartridges can be used. All other cleaning cartridges will be rejected by the autoloader.

## Ordering media

To prolong the life of the drive, use HP storage media that is specific to your tape autoloader model. To determine your model and cartridge type, refer to



the HP StorageWorks 1/8 Tape Autoloader User and Service Guide found on the Documentation CD that came with your tape autoloader. To learn more about, or to purchase HP media, visit [www.hp.com/go/storagemedia](http://www.hp.com/go/storagemedia)

## Register your autoloader

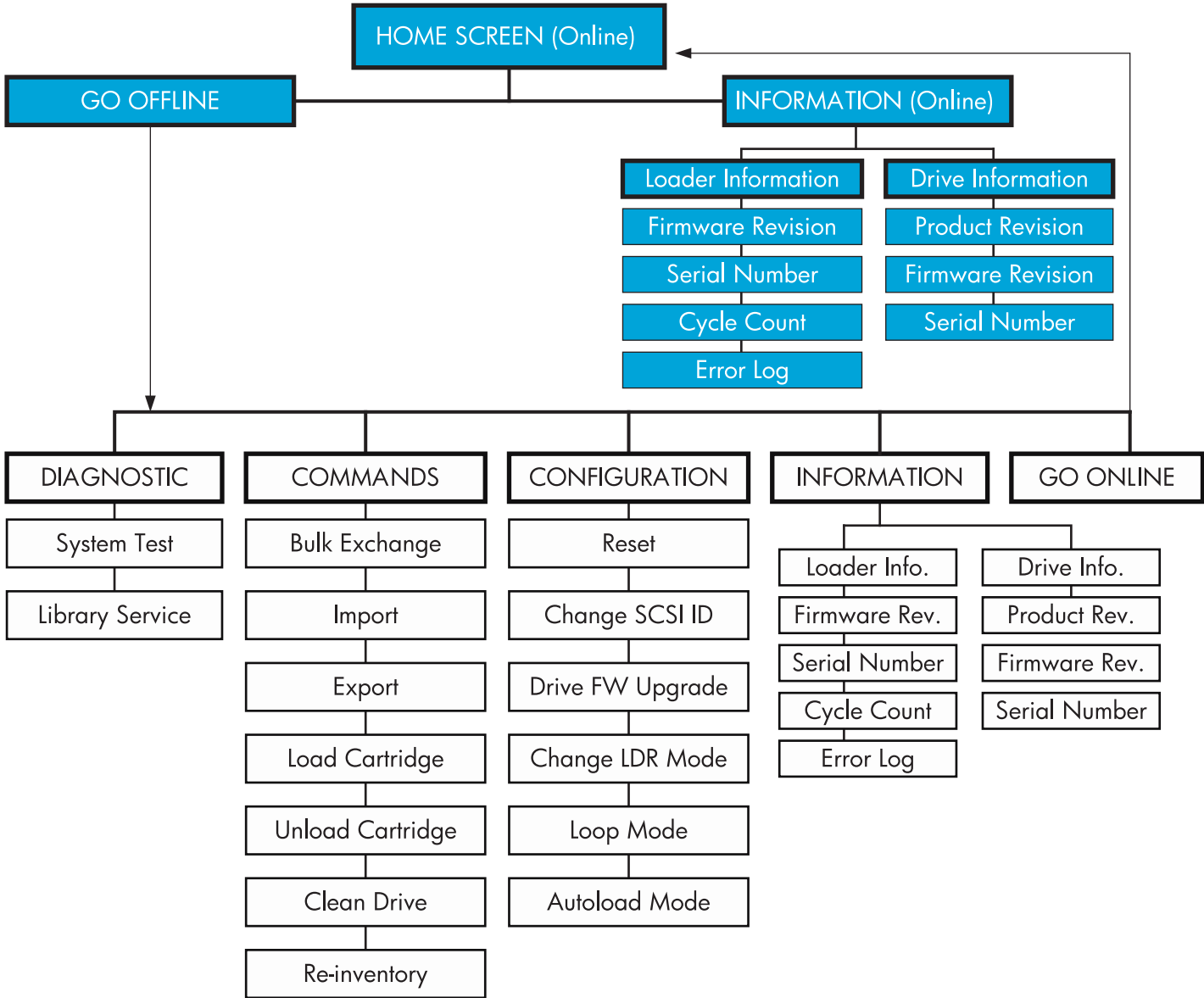
Register your autoloader online at: [www.register.hp.com](http://www.register.hp.com). HP customers who register join a select group to receive technical support updates and special HP offers.



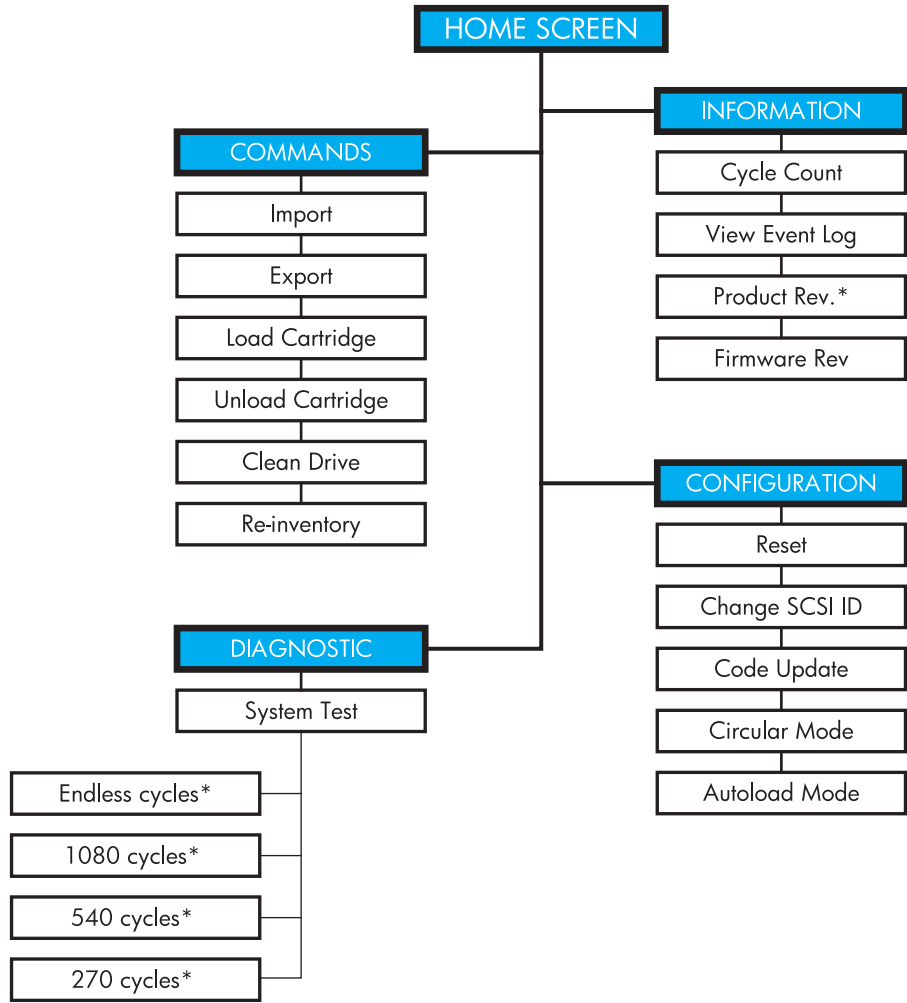


# Menu structure for the 1/8 Ultrium 960 and Ultrium 448 Tape Autoloader

The Ultrium 960 and Ultrium 448 Tape Autoloaders have an online and an offline mode. In **Online mode**, shaded light blue on the diagram, there are only two choices: Information and Go Offline. You must select **Go Offline** to access the full menu structure.



# Menu structure for all other 1/8 Tape Autoloader models



\* These options are not available on the VS80 1/8 Tape Autoloader

Pour obtenir le Manuel de l'utilisateur et d'entretien de l'Autoloader HP StorageWorks 1/8 dans votre langue, visitez le site <http://www.hp.com/support/storage> ou consultez le CD de documentation fourni avec le kit d'accessoires de l'autoloader.

Das HP StorageWorks 1/8 Tape Autoloader Benutzer- und Servicehandbuch in Ihrer Sprache finden Sie unter <http://www.hp.com/support/storage> bzw. auch auf der Documentation CD im Lieferumfang des Tape Autoloader Zubehör-Kits.

La Guida dell'utente e di assistenza del caricatore automatico di nastri HP StorageWorks 1/8 nella lingua richiesta, è disponibile sul sito Web HP all'indirizzo <http://www.hp.com/support/storage> oppure sul CD della documentazione incluso nel kit degli accessori del caricatore automatico di nastri.

Ga naar <http://www.hp.com/support/storage> om uw taalversie van de gebruikers- en servicehandleiding voor de HP StorageWorks 1/8 Tape Autoloader te downloaden. U vindt deze handleiding ook op de documentatie-cd in de accessoireset bij de tape-autoloader.

Visite <http://www.hp.com/support/storage> para obtener la Guía de usuario y de reparación del autocargador de cintas 1/8 de StorageWorks de HP en su idioma o para acceder al CD de documentación que se encuentra en el kit de accesorios del autocargador de cintas.

日本語のマニュアル「HP StorageWorks 1/8 テープオートローダ ユーザ/サービスガイド」は、<http://www.hp.com/support/storage> および アクセスリキットに同梱のドキュメントCDからご覧ください。

日本語のマニュアル「HP StorageWorks 1/8 テープオートローダ ユーザ/サービスガイド」は、<http://www.hp.com/support/storage> および アクセスリキットに同梱のドキュメントCDからご覧ください。

请访问 <http://www.hp.com/support/storage> 以获得您所使用语言版本的 HP StorageWorks 1/8 磁带自动装载机的用户与服务手册，或从磁带自动装载机附件包中的说明文档 CD 中取得此手册。

\*請造訪 <http://www.hp.com/support/storage>，可以取得您所使用語言版本的 HP StorageWorks 1/8 磁帶自動載入器的使用與服務手冊，或是從磁帶自動載入器配件組的說明文件光碟來存取此資訊。



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